Curriculum Vita

David A. LeF bre

4665 Puerta Del Sol 54 Rancho del Sol Camino, CA 95709

WORK EXPERIENCE:

Jun. 1999 - current, Nanofab, LLC/Biohmics, Inc. President and Chief Engineer. Research in charged particle separations using electric fields for large-scale protein separations.

1993 - Feb. 1999 UOP mat/sen, El Dorado Hills CA, Director. The group was a "Skunk Works" for the development of product concepts incorporating UOP materials. The group generated 35 patent applications. Developments included refractory GC Columns, Capillary Electrophoresis columns and detectors, point of use gas purification, breath analyzer for the prediction of disease, semiconductor dopant purification materials and life science applications development.

1983 - 1993 Guided Wave, Inc., El Dorado Hills CA, Founder, President and Chief Engineer. Invented, designed and manufactured Remote Sensing Statistical Spectroscopy Instruments for monitoring composition and physical properties for chemical plants and refineries (Annual revenue 1993: \$10 million).

1981 - 1983 J & W Scientific Rancho Cordova CA, instrument Development Manager. Designed nanoliter LC detector that incorporated fiber optics. Improved manufacturing coating for stationary phases for GC capillaries.

1975 - 1981 Maxlight Optical Waveguides (renamed Polymicro 1982), Phoenix AZ. Founder, President and Chief Engineer. Designed and developed plastic clad, glass on glass and liquid core optical waveguides and manufactured GC capillaries.

1969 - 1978 Sperry Flight Systems Division, Phoenix AZ, Electronic Design Engineer. Designed autopliots for the 727, 737, 747, B1 Bomber, Shuttle data bus and the NASA Shuttle Trainer data adapter. Designed the first fly by light servo system for an aircraft using optical waveguides and investigated fiber optic gyros.

1964 - 1968 Texas Instruments, Dallas TX, Electronic Engineer. Designed closed loop servo systems for tracking antennas for the Apollo program. Designed an electro-optical alignment system for Polaris missiles.

EDUCATION:

BSEE, Purdue University, 1964, EE Graduate School Southern Methodist University (1967), EE Graduat School Arizona State University (1972 -1973)

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David A. LeFebre, Curriculum Vitae

Granted U.S. Patents:

3,470,377 3,631,352 3,689,754 4,664,522 4,786,171 5,184,193 5,430,295 5,552,042 5,692,078 5,796,251 5,892,861 5,937,895 5,980,599 6,007,609 6,045,115 6,174,352 6,333,088	Two-axis Automatic Autocollimator Mid-value Signal Selector Function Generator Optical Waveguide Spectrum Analyzer and Method Spectral Analysis Apparatus and Method Dual Fiber Optic Spectrophotometer (Basic Patent) Process for Control Blending Rigid Silica Capillary Assembly High Temperature Connector For Fused Silica Capillary Body Process for Controlling Blending Using Nuclear Magnetic Resonance Spectroscopy Coated Optical Waveguides as Extremely Long Path Sample Cells Fail-safe delivery valve for pressurized tanks In-tank Purifier with Bypass for Filing Pressurized Container with Restrictor Tube having multiple Capillary Passages Fail-safe Delivery Arrangement for Pressurized Containers Round Profile multi-capillary assembly and method of making Compound capillary assembly and use in separative transport
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